

SECTION 16139 - CABLE TRAYS

PART 1 - GENERAL

1.1 PRODUCT NAME

- A. FLEXTRAY® Cable Management System.

1.2 MANUFACTURER

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. GS Metals Corp. 3764 Longspur Road, Pinckneyville, IL 62274 (800) 472-8007 (618) 357-3605 email: marketing@gsmetals.com or www.flextray.com.
 - 2. Bline.

1.3 PRODUCT DESCRIPTION

- A. Basic Use: FLEXTRAY is a welded wire mesh cable management system. The open mesh permits easy tray access and provides continuous ventilation of cables installed in the tray, preventing heat buildup and accumulation of dust, bacteria and other contaminants. The system can be installed on walls, ceilings and under access floors. It can be side supported or center hung. A continuous ground conductor fixing system can be accomplished by the use of approved splices and bonding jumpers.
- B. Composition and Materials: FLEXTRAY is produced from high mechanical strength steel wire which is first welded into a net, then formed into channels to carry the cables. Covers made from pre-galvanized steel are available to protect cables. They are easily installed and can be easily lifted for

maintenance activities. Splice plates in three styles made of electro galvanized steel effectively connect trays end to end.

C. Sizes:

1. Standard Sizes: Mesh size is 2-inches x 4-inches- (50 x 100-mm-). The standard tray length is 118-inches- (3-m-) supplied in channel 4-inch depths (105-mm). Width 12 inches (300-mm).
2. Wire Diameter: A minimum of 0.197-inch- (5.319-mm-) on all mesh sections.

D. Finishes: Finishes include:

1. EZ Electroplated Zinc Galvanized: 0.7 to 0.8-mil- (0.018 - 0.020-mm-). This finish is suitable for most indoor and mild exterior environments.

1.4 TECHNICAL DATA

A. Applicable Standards American Iron and Steel Institute (AISI)/American Society for Testing and Materials (ASTM).

1. ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
2. ASTM A510 - General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel.
3. ASTM A569 - Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial Quality.
4. ASTM A570 - Standard Specification for Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality.
5. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloyed-Coated (Galvanized) by the Hot-Dip Process.
6. ASTM B633 - Electrodeposited Coatings of Zinc on Iron and Steel.
7. National Uniform Seismic Installation Guidelines (NUSIG).

-
- B. Approvals: FLEXTRAY meets applicable Underwriters Laboratories standards and requirements. Contact GS Metals for detailed UL classification information.

1.5 INSTALLATION

- A. Methods: FLEXTRAY can be fashioned on the job site by simply cutting the steel wires. The use of bolt cutters with an offset cutting blade jaw is recommended to ensure entraining of a protective coat over cuts and creation of a galvanic couple to protect them. Cutter jaws should be positioned as close as possible to wire intersections to facilitate assembly and production of ends, tees, crosses and other configurations.
- B. #6 ground wire shall be run in cable tray and attached at each 10 feet (3-m) to tray.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 16139